

Experimental Probability



Name_____ Class____ Date____



A six-sided die is rolled **50** times. The number 4 appears **18** times.

What is the **experimental probability** of getting a **four**?

A .08

B .17 **C** .32

D .36



2

Nathan spins a spinner 10 times and writes the results down. The results are **B**, **B**, **C**, **E**, **F**, **B**, **D**, **A**, **E**, **C**.

What is the **experimental probability** that Nathan will spin a **B**?

A .17

C.3

B .29

D .43



In a bag, there are 3 green, 4 pink, and 2 blue marbles. Rachel picks a marble, writes down the results and puts the marble back. Her results are:
P, P, G, B, G, P, B, G, P, G, P, B, P, G, B.

What is the **experimental probability** that she will pick a pink marble?

A .40

C .60

B .44

D .67



What is the experimental probability of getting a tail?

A .17 **B** .50

C .60





5

Twenty-five students were asked what their favorite number from 1-9 was. The results were that 8 students said 3, 6 students said 4, 9 students said 7, and 2 students said 9.

What was the **experimental probability** that the number **3** was picked?

A .24
B .32

C .34

D .36



6

Caleb picked **10** letters from the alphabet out of a hat. His results were **H**, **J**, **X**, **A**, **N**, **O**, **I**, **N**, **B**, **C**.

What is the **experimental probability** that he picked an **N**?

A .04

C .18

B .10

D .20





The spinner shown is spun 75 times and the number seven appears 17 times. The experimental probability of getting the number seven is greater than the theoretical probability of getting the number seven.

True or false?

A true

B false



The letters in the word **PARALLELOGRAM** are put into a hat. The letters are picked out **50** times. The letter **L** appears **11** times.

The experimental probability is _ the theoretical probability.

A greater than

B less than

c equal to

D half



A die is rolled and the results are 2, 4, 6, 1, 5, 1, 6, 3, 2, 4, 5, 6, 1, 6, 4, 3, 6, 1, 6, 6. The experimental probability for getting a 6 is close to the theoretical probability.

True or false?

A true

B false



10

The theoretical probability for the spinner shown to land on blue is 1/4 or .25. An experiment is done and the spinner is spun 150 times. How many times should the spinner land on blue to have an experimental probability close to the theoretical probability?

A 24

B 30

C 38

D 60





Experimental Probability



Class Name Nathan spins a spinner 10 times and A six-sided die is rolled 50 times. The number 4 appears 18 times. writes the results down. The results are B, B, C, E, F, B, D, A, E, C. What is the experimental probability What is the experimental probability of getting a four? D that Nathan will spin a B? A .08 B .17 C .3 A .17 C .32 **B**.29 **D**.43 **D** .36 In a bag, there are 3 green, 4 pink, and A coin is flipped 20 times and the 3 2 blue marbles. Rachel picks a marble, results are H, H, T, T, T, H, T, T, writes down the results and puts the H, T, H, H, T, T, T, H, T, H, T, T. marble back. Her results are: What is the P, P, G, B, G, P, B, G, P, G, P, B, P, G, B. experimental What is the experimental probability probability that she will pick a pink marble? of getting a tail? A .40 C .60 C .60 A .17 **B** .50 D .67 **B** .44 **D**.67 Twenty-five students were asked what their Caleb picked 10 letters from the 5 6 favorite number from 1-9 was. The results alphabet out of a hat. His results were were that 8 students said 3, 6 students said 4, H, J, X, A, N, O, I, N, B, C. 9 students said 7, and 2 students said 9. What is the experimental probability What was the experimental probability that В that he picked an N? the number 3 was picked? A .24 C .34 A .04 C .18 **B** .32 D .36 **B** .10 D .20 The spinner shown is spun 75 times 8 The letters in the word PARALLELOGRAM and the number seven appears 17 times. are put into a hat. The letters are picked out The experimental probability of getting 50 times. The letter L appears 11 times. the number seven is greater than the The experimental probability is theoretical probability of В the theoretical probability. getting the number seven. A greater than True or false? B less than A true C equal to D half **B** false A die is rolled and the results are 10 The theoretical probability for the spinner shown to land on blue is 1/4 or .25. An experiment is 2, 4, 6, 1, 5, 1, 6, 3, 2, 4, 5, 6, 1, 6, done and the spinner is spun 150 times. How 4, 3, 6, 1, 6, 6. The experimental many times should the spinner land on blue to probability for getting a 6 is close have an experimental probability close to the to the theoretical probability. theoretical probability?



A true

B false



A 24

B 30

C 38

D 60



